



PATENT
P56603

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

WON-CHOUL YANG

Serial No.: 10/072,889

Examiner: DAN DAVIDSON

Filed: 12 February 2002

Art Unit: 2651

For: **METHOD AND APPARATUS FOR DETERMINING DISK DRIVE PARAMETER
IN ACCORDANCE WITH AMBIENT TEMPERATURE**

INFORMATION DISCLOSURE STATEMENT

Paper No. 7

Mail Stop Patent Application
Commissioner for Patents
P.O.Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites and describes the following art references. Under 37 C.F.R. §1.98(a)(2), a copy of U.S. patent reference(s) is not attached.

1. U.S. Patent No. 6,791,908 to Murakami, *et al.*, entitled *MAGNETO-OPTICAL RECORDING MEDIUM HAVING A TRANSFER CONTROL LAYER*, issued on September 14, 2004.

2. U.S. Patent No. 6,504,797 to Murakami, *et al.*, entitled *MAGNETO-OPTICAL RECORDING MEDIUM HAVING MULTIPLE MAGNETIC LAYERS AND REPRODUCING METHOD THEREOF*, issued on January 7, 2003.

Murakami, *et al.* '908 relates to a magneto-optical recording medium, including a recording

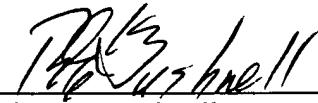
layer, a transfer control layer magnetically coupled to the recording layer, and a reproduction layer. The recording layer includes a recording magnetic domain in which information is recorded by a magnetization direction vertical to the surface of the film. The reproduction layer includes a reproduction magnetic domain in which information in the recording layer is transferred and formed as a magnetization direction by magnetic coupling. The direction of magnetization of the recording magnetic domain of the recording layer and the direction of magnetization of the transfer control layer corresponding to the recording magnetic domain are in opposite directions in at least part of the range of temperatures less than a transfer temperature where the reproduction magnetic domain is transferred to the reproduction layer. The Curie point temperature of the transfer control layer is higher than this transfer temperature.

Murakami, *et al.* 797 pertains to a magneto-optical recording medium which includes a first magnetic layer and a second magnetic layer. The first magnetic layer is an in-plane magnetized film at room temperature, but changes to a perpendicular magnetized film at a predetermined temperature higher than room temperature, and is thin enough to allow a light beam to pass through it. The second magnetic layer has perpendicular magnetic anisotropy and is arranged to allow magnetic coupling to the first magnetic layer when a light beam for reproduction comes from the first magnetic layer side. The rotation of the polarization plane of a light beam which is reflected off the first magnetic layer and the rotation of the polarization plane of the light beam which passed through the first magnetic layer and reflected off the second magnetic layer compensate each other, thereby canceling each other.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

A fee of \$180.00 is incurred by filing of the instant Information Disclosure Statement. Applicant's check drawn to the order of Commissioner accompanies this Amendment. Should the check become lost, be deficient in payment, or should other fees be incurred, the Commissioner is authorized to charge Deposit Account No. 02-4943 of Applicant's undersigned attorney in the amount of such fees.

Respectfully submitted,



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| INFORMATION DISCLOSURE STATEMENT PTO-1449 (PAGE 1 OF 1) | | SERIAL NUMBER 10/072889 | DOCKET NO. P56603 |
| | | APPLICANT | WON-CHOUL YANG |
| | | FILING DATE | 12 February 2002 |
| | | GROUP | 2651 |

~~SEARCHED~~ U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

TRANSLATION

| SEARCHED - PARENT DOCUMENTS | | | | | | | |
|-----------------------------|-----------------|------|---------|-------|----------|-----|----|
| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | YES | NO |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.